GefenTV

HDMI To Composite/S-Video Scaler

GTV-HDMI-2-COMPSVIDS

User Manual

www.gefentv.com

1080P PROGRESSIVE

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

HDTV

Blu-ray Disc

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ASKING FOR ASSISTANCE

Technical Support:

Telephone	(818) 772-9100
	(800) 545-6900
Fax	(818) 772-9120

Technical Support Hours:
8:00 AM to 5:00 PM Monday thru Friday Pacific Time.

Write To:

Gefen Inc.
c/o Customer Service
20600 Nordhoff St
Chatsworth, CA 91311

www.gefen.com
support@gefen.com

Notice

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INTRODUCTION

Congratulations on your purchase of the HDMI To Composite/S-Video Scaler. Your complete satisfaction is very important to us.

GefenTV

GefenTV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions. We will be happy to assist you in finding a solution for your particular needs.? Please call us so we can better assist you with your particular needs.

The GefenTV HDMI To Composite/S-Video Scaler

The new GefenTV HDMI to Composite Scaler lets you transform HDMI video of any resolution from 480i to 1080p into Composite video or S-Video, properly sized to view optimally on your display.

How It Works

Simply connect your HDMI video source to the HDMI input jack of the GefenTV HDMI to Composite Scaler. Connect your Composite or S-Video display cable to the correct video output jack on the Scaler's rear panel. RCA-type analog audio output jacks and Coaxial S/PDIF digital audio output jacks allow for the connection of an audio Receiver or other device to receive the audio signal embedded in the HDMI signal. Power-cycle all connected components. You will then have HDMI video playing on your Composite or S-Video display with simultaneous audio out.

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE HDMI TO COMPOSITE/S-VIDEO SCALER

- HDMI To Composite/S-Video Scaler converts 480i/p, 576i/p, 720p, 1080i/p to either NTSC 480i or PAL 576i.
- The HDMI To Composite/S-Video Scaler will cross convert between some digital audio formats. Both the digital and analog audio outputs are active at all times. The HDMI To Composite/S-Video Scaler will not, however, down-mix multi-channel digital audio formats to 2 channel analog stereo. Please see the chart on page 6 for more info.
- Please be sure to set the proper output format for your television. NTSC 60Hz is commonly used in the United States and Japan, while PAL 50Hz is commonly used in European countries. Using the improper format will result in a unrecognizable picture and may damage your TV set.
- HDMI 1.2 Compliant.
- HDCP encrypted HDMI sources are not supported by this device. If a connected HDMI source requires HDCP the outgoing video signal will result in a black screen.

FEATURES

Features

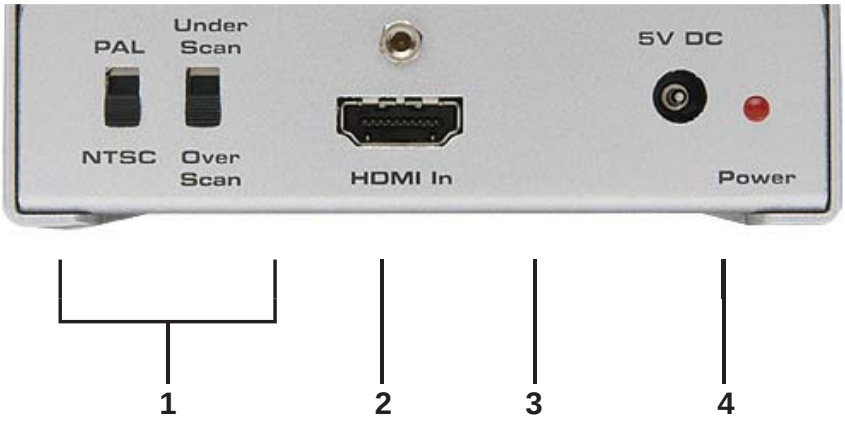
- HDMI to Composite / S-Video conversion plus scaling
- HDMI pass-through
- Supports 480i to 1080p HDMI input resolutions
- Outputs 480i / 576i signal for Composite/S-Video
- Supports both NTSC and PAL formats

Package Includes

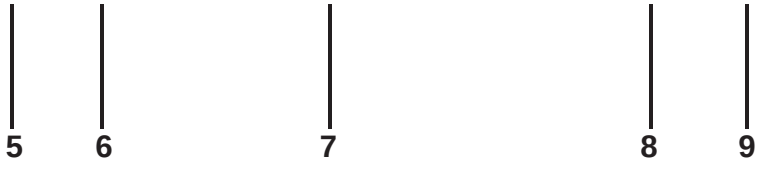
(1) HDMI To Composite/S-Video Scaler
(1) 6 Foot HDMI Cable (M-M)
(1) 5V DC Power Supply
(1) User's Manual

PANEL LAYOUT

Front Panel



Back Panel



PANEL DESCRIPTIONS

1 Stereo Analog Audio Output

2 RCA stereo analog audio outputs. Connects to the display or a audio Receiver. Only 2 channel LPCM from the HDMI input can be passed to these outputs. Multi-channel bit-stream such as Dolby Digital will not be passed to this output.

2 Composite Analog Video Output

RCA composite video output. Connect to a composite input on a television. 480i and 576i are the only resolution output options.

3 S-Video Analog Video Output

S-Video video output. Connect to a s-video input on a television. 480i and 576i are the only resolution output options.

4 Digital Audio Output

Coaxial digital audio output. Connects to the display or a audio Receiver. 2 channel LPCM and multi-channel bitstream can be output from this connector.

5 Video Format Output Switch

Switch between NTSC (60Hz) and PAL (50Hz) output. Please ensure that you use the proper output for you television. Using the wrong format will result in a unrecognizable picture and may damage your television.

6 Under/Over Scan Switch

Most analog television sets were designed to accept an over-scanned signal. If the resulting video signal displays a black border around the edges, use the over-scan option. If the resulting video signal is stretched far beyond the television's edge, use the under-scan option.

7 HDMI Input

Connect the HDMI source to this input connector. This will accept both video and audio through the HDMI connector.

8 5V DC Power Supply Input

Connect the included 5V DC power supply to this input.

9 Power LED

This LED will become active once the included power supply is properly connected.

SENDER PANEL LAYOUT

Front Panel

Back Panel

1 HDMI To Composite/S-Video Scaler

HDMI To Composite/S-Video Scaler

Front Panel

Back Panel

1 HDMI To Composite/S-Video Scaler
HDMI To Composite/S-Video Scaler

CONNECTING AND OPERATING THE HDMI TO COMPOSITE/S-VIDEO SCALER

How to Connect the HDMI To Composite/S-Video Scaler

1. Connect the HDMI source to the HDMI To Composite/S-Video Scaler's HDMI input using the supplied HDMI cable.

2. Connect the display to the HDMI To Composite/S-Video Scaler's composite or s-video outputs using user supplied cables.

3. Connect the HDMI To Composite/S-Video Scaler's stereo analog audio output to the display or audio Receiver. Optionally, you can connect the digital coaxial output to the display or an audio Receiver.

4. Ensure that the proper video output format is set using the NTSC/PAL format switch on the rear panel of the unit. Please consult your television's manual for the proper input format type.

5. Connect the included 5V DC power supply to the HDMI To Composite/S-Video Scaler.

6. Once you have a video image on-screen, use the under/over scan switch to adjust the image's size.

NOTE: The HDMI To Composite/S-Video Scaler will cross convert between some digital audio formats. Both the digital and analog audio outputs are active at all times. The HDMI To Composite/S-Video Scaler will not, however, down-mix multi-channel digital audio formats to 2 channel analog stereo. Please see the chart below for supported input and output formats.

INPUT ► / OUTPUT ▼	HDMI MULTICHANNEL LPCM	HDMI 2 CHANNEL LPCM	HDMI DOLBY DIGITAL & DTS
DIGITAL COAXIAL	YES *2 CHANNEL	YES	YES
ANALOG STEREO MINI-JACK	NO	YES	NO

*2 channels are the front right and front left speakers. It will not down-mix multi-channel to 2 channel audio

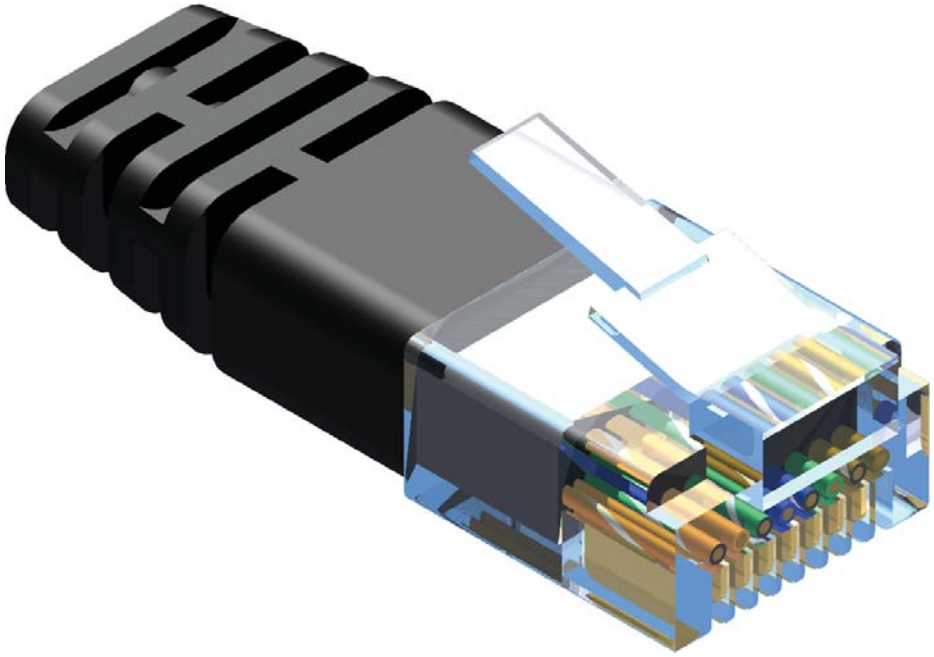
1. HDMI To Composite/S-Video Scaler

IR CODE CONFIGURATION

1. HDMI To Composite/S-Video Scaler

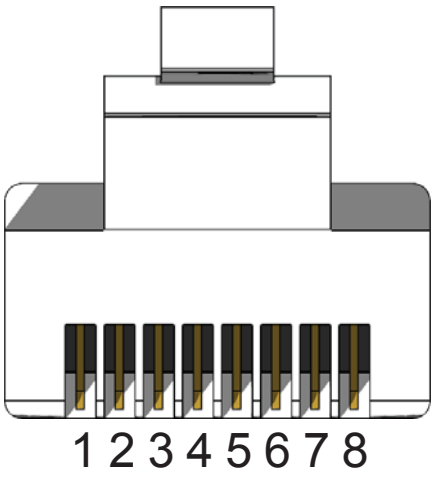
1. HDMI To Composite/S-Video Scaler

NETWORK CABLE WIRING DIAGRAM



Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling. CAT-6 cable is also recommended for best results.

Each cable run must be one continuous run from one end to the other. No splices or use of punch down blocks.

RACK MOUNT INSTALLATION

Rack mount ears are provided for installation of this unit into a 1U rack mount space.

1. Locate the side screws on the unit.
2. Remove the front 2 screws that are located closest to the front of the unit.
3. Using the removed screws, screw the rack mounting bracket into the unit.
4. Repeat the procedure on the opposite side of the unit.

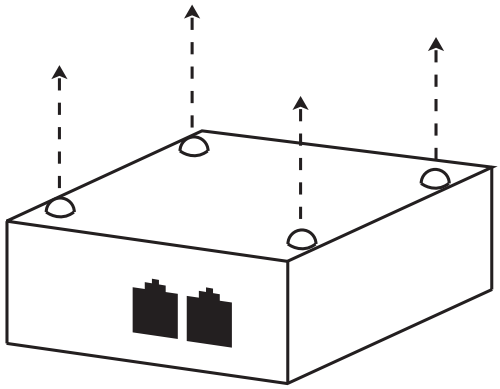
1

2

3

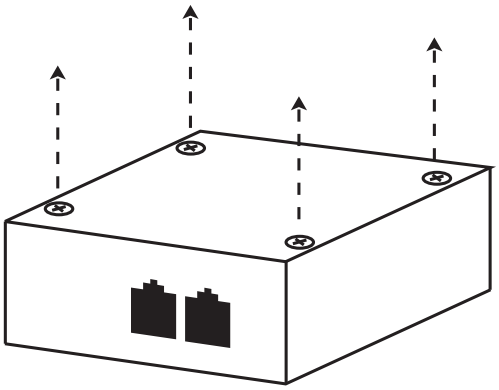
4

Mounting Plate Installation



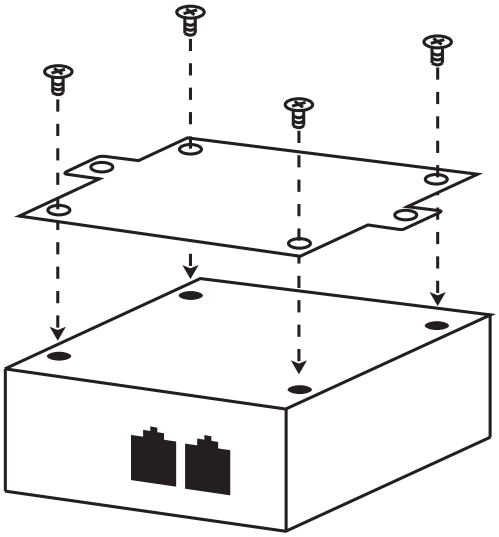
1

Remove the rubber feet covering the screws off the bottom of the unit.



2

Remove the screws.



3

Line up the mounting plates and screw it on to the unit.

SPECIFICATIONS

Input Video Signal ..... 1.2V p-p

Input Sync Signal ..... 5V p-p (TTL)

Horizontal Frequency Range ..... 15-70 KHz

Vertical Frequency Range ..... 30-170 KHz

Video In/Out ..... 1 L/R Composite RCA / 1 S-Video

Audio In/Out ..... 2 L/R RCA audio, 2 S/PDIF digital audio

Power Consumption .....7.5 Watts (max)

Power Supply ..... 5V DC

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty web page at http://www.gefen.com/kvm/aboutus/warranty.jsp

PRODUCT REGISTRATION

Please register your product online by visiting Gefen's web site at http://www.gefen.com/kvm/Registry/Registration.jsp

ma-HDMI-2-COMPSVIDS

Rev X1

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